

ABSTRACT OF THE DISCLOSURE

The invention relates to a radial piston pump for generating high fuel pressure in fuel injection systems of internal combustion engines, in particular in a common rail injection system, having a driveshaft, supported in a housing, that has an eccentrically embodied shaft portion which cooperates with preferably a plurality of pistons capable of reciprocating radially, relative to the driveshaft, in a respective element bore, in order to aspirate fuel and subject it to high pressure in a high-pressure region. In order to increase the efficiency and lengthen the service life, in the outer jacket face of the pistons and/or the inner jacket face of the element bore, a structure in the μm range is formed.